

Claims

1. An electrochemical element in the form of a button cell comprising at least one lithium-intercalating electrode and a housing with an opening, wherein the opening is closed in a sealed manner during formation of the electrochemical element, open once after formation for gas to escape from inside of the electrochemical element, and then closed in a gastight manner.
2. The electrochemical element according to Claim 1, wherein said housing comprises a cover and a cup.
3. The electrochemical element according to Claim 1, wherein said housing is composed of metal.
4. The electrochemical element according to Claim 1, wherein said opening is closed by a sheet.
5. The electrochemical element according to Claim 4, wherein said sheet is a metal or a metal/plastic composite sheet.
6. The electrochemical element according to Claim 5, wherein said housing comprises a cover or a cup with said sheet being adhesively bonded or welded to said cover or to said cup.

7. The electrochemical element according to Claim 1, wherein said opening is sealed with a plastic.

8. A method for producing an electrochemical element in the form of a button cell comprising:

placing at least one lithium-intercalating electrode in a housing having an opening;
sealing said opening during formation of said electrochemical element;
breaking open the opening once formation of the electrochemical element has been completed for gas to escape from inside of said electrochemical element; and
closing said opening in a gastight manner.

9. The method according to Claim 8, wherein said opening is closed by a sheet, and said sheet is adhesively bonded or welded to said housing.

10. The method according to Claim 9, wherein said housing comprises a cover or a cup and said sheet is adhesively bonded or welded to said cover or said cup.

11. The method according to Claim 8, wherein said opening is encapsulated with a plastic.

12. The method according to Claim 8, for producing an electrochemical element according to Claim 1.